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L5: Entry 19 of 19

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Jun 29, 1999

DERWENT-ACC-NO: 1999-422619

DERWENT-WEEK: 199936

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TITLE: Identifying yeast-like fungi - useful for investigating trend between human disease and fungi and degeneration of food

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PRIORITY-DATA: 1997JP-0354044 (December 9, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11169181 A	June 29, 1999	N/A	012	C12N015/09

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP11169181A	<u>December 9, 1997</u>	1997JP-0354044	N/A

INT-CL (IPC): C12N 15/09; C12Q 1/04; C12Q 1/68; C12Q 1/04; C12R 1/645; C12Q 1/04; C12R 1/85

ABSTRACTED-PUB-NO: JP11169181A

BASIC-ABSTRACT:

NOVELTY - A method for identification of yeast-like fungi with a gene engineering procedure is new, and comprises: (1) preparing a template genome DNA extracted from microorganism to be identified; (2) combining oligonucleotides sequences 1 and 2, or 3 and 4 (all fully defined in the specification) to give a pair of primers; (3) PCR with the primers to amplify intermediate region DNA of a gene encoding for 18S-ribosome RNA; (4) determining the base sequence of the amplified product with conventional methods; (5) comparing the determined base sequence with that of known DNA sequence to find most homologous fungi as the aimed yeast-like fungi, especially those of *Bensingtonia*, *Bullera*, *Candida*, *Cryptococcus*, *Debaryomyces*, *Dekkera*, *Kluyveromyces*, *Metschnikowia*, *Rhodotorula*, *Sporobolomyces*, *Torulaspora*, *Tremella*, *Trichosporon*, *Udeniomyces*, *Zygosaccharomyces*, *Leucosporidium*, *Filobasidium*, *Filobasidiella*, *Endomyces*, *Saccharomyces*, *Systofilobasidium*, Brettanomyces, or *Dipodascus* spp.

USE - The determination is useful for investigation of the trend between human diseases and fungi, degeneration of foods, and route of communicable diseases.

ADVANTAGE - Rapid and accurate identification of a specific yeast-like fungus using a specific base sequence in the intermediate region of a gene encoding for 18S-ribosome RNA (18S-rRNA).

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EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: D13 D16

CPI-CODES: D03-H02; D03-K03; D03-K04; D05-H05; D05-H12A; D05-H12D1; D05-H18B;